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*Uno, M.; Nakajima, T.;*
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# A spreadsheet implementation of QFD and systems engineering approaches to support concurrent engi

Doukas, L. Pollock, G. Jeyaratnam, C.
Graduate Sch. of Eng., R. Melbourne Inst. of Technol., Vic., Australia;

*This paper appears in:* **Innovation in Technology Management - The Key Leadership. PICMET '97: Portland International Conference on Manage Technology**

Meeting Date: 07/27/1997 - 07/31/1997
Publication Date: 27-31 July 1997
Location: Portland, OR USA
On page(s): 815 - 820
Reference Cited: 5
Number of Pages: xlii+1018
Inspec Accession Number: 5739596

**Abstract:**
For an organisation to sustain its competitive advantage, there is a strong nee timely adjustment to ever rapidly changing customer demands. To achieve th known customer needs must be prioritised and transformed into organised do design requirements. This paper describes how a spreadsheet framework has developed which incorporates a modified quality function deployment (QFD) a engineering process (SEP) for product development and planning. The applica analytic hierarchy process (AHP) is used as a means of ranking top level user requirements. The methodology provides a pro-active means and a strong link quantified user requirements that are prioritised and **product design**/perform assuring that down-stream design incorporated into trade-off decisions. An ex also presented to test and **evaluate** the spreadsheet approach in heavy engin projects

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# Consumer-centered product design specifications u fuzzy multivariate regression analysis

Kao, H.P. Kimbler, D.L. Juang, C.H. Bridges, W.C.
Nat. Central Univ., Taiwan;

*This paper appears in:* **Uncertainty Modeling and Analysis, 1993. Procee Second International Symposium on**

Meeting Date: 04/25/1993 - 04/28/1993
Publication Date: 25-28 April 1993
Location: College Park, MD USA
On page(s): 387 - 392
Reference Cited: 9
Inspec Accession Number: 4857656

**Abstract:**
To optimize **product design**, it is desirable that a functional model that descr correlation between the product attributes and the design specifications is ava new methodology which uses multivariate regression analysis is combined wit theory to model the correlation between consumer-perceived product quality a and designer-controlled design factors. The fuzzy regression model is then uti predict the quality level of the intended design. This method is most suitable w product has multiple quality attributes that could best be **evaluated** using lin terms

**Index Terms:**
computational linguistics fuzzy logic product development statistical analysis consum **product design** specification consumer-perceived product quality attributes designer-design factors fuzzy regression model fuzzy set theory linguistic terms multiple qual multivariate regression analysis product attributes

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*Sang-Jae Song;*
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